

## CLAIMS

What is claimed is:

1. A spread spectrum remote unit comprising:

means for receiving a spread spectrum signal, the spread spectrum signal including a reference signal and a message signal, the message signal having message data;

means for detecting the reference signal within the received combined spread spectrum signal; and

means for recovering the message data of the message signal using the reference signal.

2. The remote unit of claim 1 further comprising:

means for recovering a carrier signal from the spread spectrum signal using the reference signal; and

wherein the message data recovering means uses the recovered carrier signal to recover the message data.

3. The remote unit of claim 1 wherein the spread spectrum signal is in a code division multiple access format.

4. A spread spectrum remote unit comprising:

means for receiving a spread spectrum signal, the spread spectrum signal including a reference signal and a message signal, the message signal having message data;

means for recovering a carrier signal of the combined spread spectrum signal using the reference signal; and

means for recovering the message data using the recovered carrier signal.

5. The remote unit of claim 4 wherein the spread spectrum signal is in a code division multiple access format.

6. A spread spectrum remote unit comprising:

means for producing a message signal having message data;

means for producing a reference signal, the reference signal for use in recovering the message data from a combined spread spectrum signal;

means for combining the reference signal and the message signal as a combined signal; and

means for transmitting the combined signal as the combined spread spectrum signal.

7. A spread spectrum remote unit comprising:

means for receiving a spread spectrum signal, the spread spectrum signal including a reference signal and a plurality of message signals, each message signal having message data;

means for detecting the reference signal within the received combined spread spectrum signal; and

means for recovering the message data of the plurality of message signals using the reference signal.

8. The remote unit of claim 7 further comprising:

means for recovering a carrier signal from the spread spectrum signal using the reference signal; and

wherein the message data recovering means uses the recovered carrier signal to recover the message data.

9. The remote unit of claim 7 wherein the spread spectrum signal is in code division multiple access format.